

**PATENT** 

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Attorney Docket No. 1043.002

In re application of: Azzedine Touzni, Raúl A. Casas, Thomas J. Endres, Stephen L. Biracree,

Christopher H. Strolle, and Samir N. Hulyalkar

Serial No.: 09/922,006

Filed:

08/03/01

Group No.: 2631

Examiner: Not Yet Assigned

rion AKCKIVED ROAD CONTROL SOON For: Carrier Phase Estimation Based On Single-Axis Constant Modulus Cost Criterion

#### **INFORMATION DISCLOSURE STATEMENT**

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

In accordance with 37 CFR § 1.56, this is an Information Disclosure Statement (IDS) for the above-captioned U.S. patent application. An IDS Form PTO-1449 listing references is enclosed herewith and forms a part hereof.

### Certification Under 37 CFR § 1.704(d)

Each item of information contained in this statement was cited in a communication from  $[\ ]$ a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of this statement.

## Certification Under 37 CFR § 1.97(e)

[] Each item of information contained in this statement was either (1) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement or (2) not known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

Certification Under 37 CFR 1.8

Date of Deposit November 14, 2001.

I hereby certify that this paper and any accompanying papers or fees are being deposited with the U.S. Postal Service with sufficient postage as first class mail under 37 CFR 1.8 on the date indicated above and addressed to the Commissioner for Patents, Washington, D.C. 20231.

Mary E. Caniz

(Name of person mailing)

Mary E. Caning.
(Signature of person mailing)

h Under 37 CFR § 1.97(d)

This is a petition requesting consideration of an IDS under § 1.97(d). The petition fee for submission of this IDS under § 1.97(d) is \$130.00 as set forth in § 1.17(i).

# Provision of Copies of References

[X]	A copy of each of the listed references is enclosed herewith and forms a part hereof.							
	[]	A translation of each of Reference(s) is enclosed herewith and forms a part hereof.						
[ ]	A copy of the International Search Report from a corresponding PCT application is enclosed herewith.							
[ ]	A copy of the European Search Report from a corresponding EPO application is enclosed herewith.							
[]	The ab	ove-captioned U.S. patent application is a  [ ] continuation [ ] divisional [ ] continuation-in-part						
	the pri	ation of U.S. application serial number, filed on as Attorney Docket No. Each of the listed references was previously cited by or submitted to the Office in or application. The above-captioned U.S. patent application relies upon the prior ation for an earlier filing date under 35 U.S.C. 120. Pursuant to § 1.98(d), copies listed references are not being provided with this IDS.						
Autho	rization	To Charge Deposit Account						

Authorization is given to charge Deposit Account 50-0872 name of Mendelsohn & [X] Associates, P.C. for any fee under § 1.97(c) and § 1.17(p) or under § 1.97(d) and § 1.17(i).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449 form as confirmation that each of the documents has been considered.

Respectfully submitted,

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**Enclosures** 

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A	В	"Self-Recovering Equalizations on Con			nding Author Title Date acking in Two-Din 3, No. 11, Oct. 1980			ation Systems" by I	D. N. Godard,		
A	.c	"A New Approach to Multipath Correction of Constant Modulus Signals" by John R. Treichler and Brian G. Agee, IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-31, No. 2, April 1983, pp. 459-471.									
AD "Global convergence Of A Single-Axis Constant Modulus Algorithm" by A. Shah, et al, Proceedi Array Processing Workshop, Pocono Manor, PA, August 2000.						ceedings of the Stati	stical Signal and				
AE "Blind Deconvolution" by Simon Haykin, Chapter 2, Prentice Hall, Englewood Cliffs, NJ, 1994, pps. 8-59.							994, pps. 8-59. cv				
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DATE CONSIDERED EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.